

CONFIDENTIALNPIC/TDS/D-610-67
5 January 1967

MEMORANDUM FOR: Chief, Development Staff, TDS

THROUGH: Chief, Exploitation Systems Branch

SUBJECT: Checkout of [REDACTED] Equipment

1. The problems associated with the [REDACTED] equipment set up off line with the [REDACTED] comparator appear to have been solved. [REDACTED] has checked out the system and determined that the major fault lies with the power supply to the [REDACTED] converter. This fault has been corrected by adding a capacitor in each counter to smooth out the ripples. Other less serious anomalies were uncovered during the checkout indicating poor quality control by [REDACTED]. It is therefore recommended that all [REDACTED] components at NPIC be checked out before making them operational.

2. Although the [REDACTED] equipment is still under warranty, it would be impractical to send all the components back to the factory for checkout. [REDACTED] is willing to undertake the checkout and perform the work at NPIC. The time estimate for checkout is 4 man days per system or 224 man hours to checkout all the on/off line equipment. This work would be accomplished by two technicians working in a non operational area such as the shop. The current task order with [REDACTED] will cover this work. The hourly rate for a technician is [REDACTED]. An electronic specialist is [REDACTED]. I recommend that [REDACTED] be given this task and that [REDACTED] be reprimanded. If practical, [REDACTED] should be forced or threatened to pay the bill for the work performed by [REDACTED]. There is a possibility that [REDACTED] would be willing to send one of their own technicians to accomplish this task. If they would do this, I would recommend allowing them to correct their mistakes. Attached is a list of anomalies uncovered by [REDACTED].

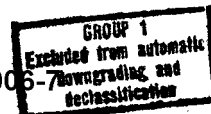
Declass Review by NIMA / DoD

Exploitation Systems Branch, DS

Attachment:
List of Malfunctions

Distribution:

Orig & 1 - Addressee
Approved For Release 2002/01/02 : CIA-RDP78B047A002300040006-7

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CONFIDENTIAL**SYNCHRONIZER**

25X1A

RTS Generator

25X1A

1. Diode CR 12 shorted out by printed circuit.

CTS Card

25X1A

1. Diode from base of Q1 to ground is on board but not shown on drawing. (Remove)

Error-Accum Logic

25X1A

1. Capacitor C12 shorted.

RTS Gen.

25X1A

1. Capacitor C8 connected to wrong side of Xener diode on Board (Change).

Check all 12V capacitors for shorts. Recommend change these.
Check all cards for shorts on printed circuit board and check that contacts are clean.

25X1A

COUNTER

25X1A

1. Pin 8 is the -18v supply for the optisyn converter. This supply has about .7V of 120 cps ripple. I have installed 100 MFD capacitor on this card (to ground from Pin 8). However, I have ordered 500 MFD capacitor at 25V because there is already a mounting hole in the counter, for this size capacitor. The converter calls for - 18V with no more than 10 MV ripple. The signal going into the converter is only + 130 MV.

25X1A

CONTROL PANEL

25X1A

1. Wire reversed on nixie light.
2. Readout buttons malfunction regularly.
3. Preset & zero reset buttons reversed. Also zero reset buttons are not glued.

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